

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A track jump method performed on a disc on which a plurality of header areas having different phases are disposed between recordable data areas, in which information for recognition of reference frequency is provided in wobbling shape on a track, to separate the data areas, the track jump method comprising the steps of:

receiving a track jump command;

checking whether a current location of a pickup head is the end of a header area when the track jump command is received;

standing by without performing a track jump when the current location of the pickup head is not the end of the header area, and performing the track jump with inhibition of a phase locked loop (PLL) of a wobble signal and with a generation of a previously generated PLLed-wobble signal when the current location of the pickup head is the end of the header area; and

resuming the PLL of the wobble signal when the track jump is completed.

2. (Original) The track jump method of claim 1, wherein the checking step determines an off-point of a header mask signal indicating a header area as the end point of header area.

3. (Currently Amended) The track jump method of claim 1, wherein the PLL inhibiting step inhibits the PLL of the wobble signal and ~~holds a~~ continuously generates the previously generated PLLed-wobble signal ~~to a~~ value obtained before the track jump is performed.

4. (Original) The track jump method of claim 1, wherein the PLL inhibition step slices a sum of optical reflected signals from the optical recording medium at certain level to generate a header mask signal indicating a header area.

5. (Original) The track jump method of claim 1, wherein the PLL inhibiting step slices a difference between optical reflected signals, which area divided in a track direction from the optical recording medium, at a certain level to generate a header mask signal indicating a header area.

6. (Original) The track jump method of claim 1, wherein the PLL inhibiting step counts wobble signals subjected to the PLL to generate a header mask signal indicating a header area.

7. (Original) The track jump method of claim 1, wherein the PLL resuming step counts wobble signals subjected to the PLL to generate a header mask signal indicating a header area when the track jump is completed.

8. (Original) The track jump method of claim 1, wherein the PLL inhibiting step inhibits the PLL of the wobble signal in a section in which a header mask signal is on.

9. (Original) The track jump method of claim 1, wherein the PLL resuming step terminates the track jump before a point at which a header mask signal indicating a header area is turned on.

10. (Currently Amended) A track jump method performed on a disc on which a plurality of header areas having different phases are disposed between recordable data areas to separate the data areas, the track jump method comprising the steps of:

receiving a track jump command;

checking whether a current location of a pickup head is a header area when the track jump command is received; and

performing the track jump when the header area ends as a result of the checking step while inhibiting a phase locked loop (PLL) of a wobble signal and while generating a previously generated PLLed-wobble signal and standing by without performing a track jump until the header area ends if the current location of the pickup head is the header area as a result of the checking step.

11. (Previously Presented) The track jump method of claim 10, wherein the checking step determines a falling point of a header mask signal indicating an end point of the header area.

12. (Original) The track jump method of claim 10, wherein the track jump performing step ends before a rising point of a header mask signal indicating a header area.

13. (Original) The track jump method of claim 10, wherein when an N-time consecutive track jump command is received, a procedure of starting the track jump at a falling edge of a header mask signal, ending the track jump before a rising edge of the header mask signal, and turning on a servo is repeated N times.

14. (Currently Amended) A track jump method performed on a disc on which a plurality of header areas having different phases are disposed between recordable data areas, in which information for recognition of reference frequency is provided in wobbling shape on a track, to separate the data areas, the track jump method comprising the steps of:

performing a track jump while generating a previously generated PLLed-wobble signal and inhibiting a phase locked loop (PLL) of a wobble signal when

a track jump command is received, wherein the track jump is started at a point where a header areas ends; and

resuming the PLL of the wobble signal when the track jump is completed.

15. (Currently Amended) The track jump method of claim 14, wherein the PLL inhibiting step inhibits the PLL of the wobble signal and continuously generates the previously generated ~~holds a PLLed-wobble signal to a value~~ obtained before the track jump is performed, during the track jump.

16. (Original) The track jump method of claim 14, wherein the PLL inhibiting step starts the track jump at a point where a header area ends when the track jump command is input.

17. (Original) The track jump method of claim 14, wherein the PLL inhibiting step inhibits the PLL of the wobble signal in a section in which a header mask signal is on.

Claims 18 to 21. (Canceled)

22. (Currently Amended) A track jump method for an optical recording medium on which a plurality of header areas having different phases are disposed between data areas, the method comprising the steps of:

(a) checking whether a current location of a pickup head is the end of a header area when a track jump command is received; and

(b) starting the track jump when the current location of the pickup head is the end of the header while a phase locked loop (PLL) of a wobble signal is inhibited and while generating a previously generated PLLed-wobble signal.

23. (Previously Presented) The method of claim 22, wherein the step (a) determines an off-point of a header mask signal indicating a header area as the end point of the header area.

24. (Canceled)

25. (Previously Presented) The method of claim 22, further comprising:

(c) resuming a PLL of the wobble signal when the track jump is completed.

26. (Currently Amended) The method of claim ~~24~~ 22, wherein the step (b) inhibits the PLL of the wobble signal and ~~holds a~~ continuously generates the previously generated PLLed-wobble signal ~~to a value~~ obtained before starting of the track jump.

27. (Currently Amended) The method of claim ~~24~~ 22, wherein the step (b) counts wobble signals subjected to the PLL to generate a header mask signal indicating a header area.

28. (Currently Amended) The method of claim ~~24~~ 22, wherein the step (b) inhibits the PLL of the wobble signal in a section in which a header mask signal is on.

29. (Previously Presented) The method of claim 25, wherein the step (c) maintains the track jump until a point at which a header mask signal indicating a header area is turned on.

30. (Currently Amended) A track jump method for an optical recording medium on which a plurality of header areas having different phases are disposed between data areas, the method comprising the steps of:

(a) checking whether a current location of a pickup head is a header area when a track jump command is received; and

(b) determining whether to start the track jump based on the checking step (a), wherein the track jump is started when the header area ends, and a phase locked loop (PLL) of a wobble signal is inhibited and a previously generated PLLed-wobble signal is generated during the track jump.

31. (Previously Presented) The method of claim 30, wherein the track jump is started when the current location is the end of the header as a result of the step (a).

32. (Previously Presented) The method of claim 30, wherein the step (a) determines an off-point of a header mask signal indicating a header area as the end point of the header area.

33. (Canceled)

34. (Previously Presented) The method of claim 30, further comprising:

(c) resuming a PLL of the wobble signal when the track jump is completed.

35. (New) A device for controlling a track jump for an optical recording medium, the device comprising:

a pickup head;

a controller to check whether a current location of the pickup head is a header area on the optical recording medium when a track jump command is received and to determine whether to start the track jump based on the checking result; and

a phase locked loop (PLL) unit to continuously generate and output a previously generated PLLed-wobble signal during the track jump being started when the header area ends.

36. (New) The device of claim 35, wherein the controller inhibits the PLL unit from performing a PLL operation during the track jump.